

Title (en)

Active smart antenna system and fabrication method thereof

Title (de)

Aktives intelligentes Antennengruppensystem und zugehöriges Herstellungsverfahren

Title (fr)

Système active d'antennes intelligentes et son procédé de fabrication

Publication

EP 1458053 B1 20060823 (EN)

Application

EP 04005722 A 20040310

Priority

KR 20030016185 A 20030314

Abstract (en)

[origin: EP1458053A1] Disclosed are an active smart antenna system and a method thereof. The system comprises: an antenna (100) for receiving a signal; a low noise amplifier (200) for amplifying a signal received through the antenna so as to minimize a noise generation; and a phase shifter (300) for controlling a phase of the amplified signal. The antenna, the low noise amplifier, and the phase shifter are formed on one high resistance substrate (10). <IMAGE>

IPC 8 full level

H01Q 21/00 (2006.01); **H01Q 1/38** (2006.01); **H01Q 23/00** (2006.01); **H04B 1/18** (2006.01)

CPC (source: EP KR US)

H01Q 1/38 (2013.01 - EP US); **H01Q 21/00** (2013.01 - EP US); **H01Q 23/00** (2013.01 - EP KR US); **H01L 2224/05568** (2013.01 - EP US); **H01L 2224/05573** (2013.01 - EP US); **H01L 2224/16225** (2013.01 - EP US); **H01L 2224/32225** (2013.01 - EP US); **H01L 2224/48091** (2013.01 - EP US); **H01L 2224/48227** (2013.01 - EP US); **H01L 2224/73265** (2013.01 - EP US); **H01L 2924/00014** (2013.01 - EP US)

C-Set (source: EP US)

1. **H01L 2224/48091** + **H01L 2924/00014**
2. **H01L 2224/73265** + **H01L 2224/32225** + **H01L 2224/48227** + **H01L 2924/00**
3. **H01L 2924/00014** + **H01L 2224/05599**

Citation (examination)

REINMUT K. HOFFMANN: "Integrierte Mikrowellenschaltungen", 1983, SPRINGER VERLAG, BERLIN, HEIDELBERG, NEW YORK, TOKYO, ISBN: 3-540-12352-0

Cited by

CN112103637A; CN110741509A; EP3136504A1; US10256538B2; US9667467B2; EP1976354A4; EP3136505A1; WO2012013998A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1458053 A1 20040915; **EP 1458053 B1 20060823**; AT E337629 T1 20060915; CN 1531139 A 20040922; DE 602004002007 D1 20061005; DE 602004002007 T2 20061207; JP 2004282752 A 20041007; KR 100548244 B1 20060202; KR 20040081638 A 20040922; US 2004178959 A1 20040916; US 7365683 B2 20080429

DOCDB simple family (application)

EP 04005722 A 20040310; AT 04005722 T 20040310; CN 200410008928 A 20040315; DE 602004002007 T 20040310; JP 2004070759 A 20040312; KR 20030016185 A 20030314; US 79990204 A 20040312